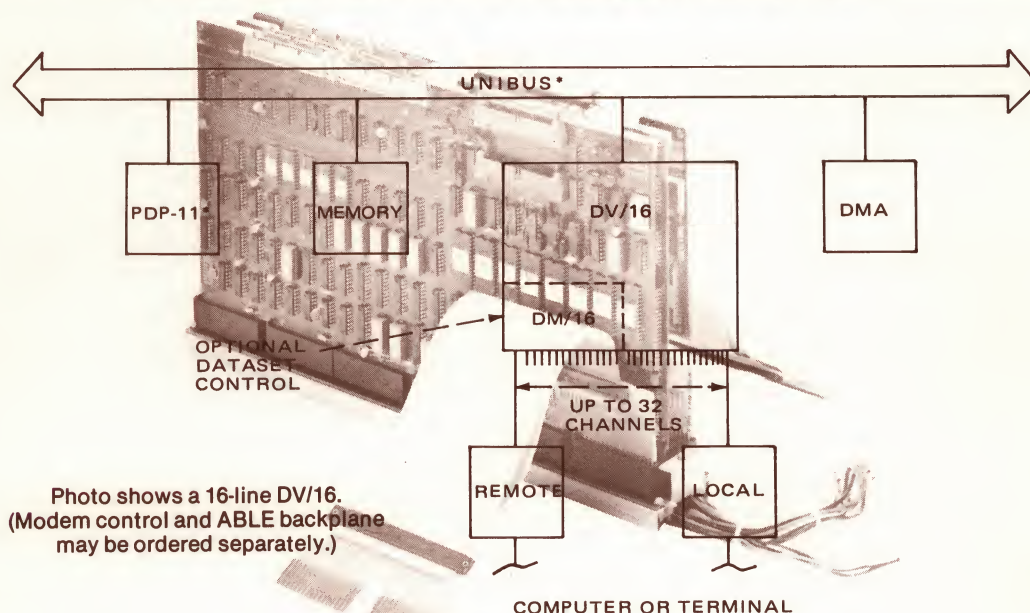


DV/16™ (DV11 Replacement)

The DV/16 is a programmable DMA communications multiplexer that consumes less power and occupies less than half the space of DEC's* DV11.



FEATURES

- The DV/16 provides up to a full 32-line synchronous/asynchronous DMA data transfer capability (equivalent to two DEC* DV11's)
- The DV/16 improves data throughput capability by using word rather than byte transfers
- Provides greater flexibility — the user can choose 8, 16, 24, or 32 communication lines
- Synchronous/asynchronous operation is switch selectable in groups of four channels
- Provides full dataset (modem) control for 16 lines on one hex-width board
- The DV/16 is also available without dataset control
- Installs easily — mounts in available SPC slots (does not require a dedicated backplane)
- Provides selectable character length and format
- The DV/16 provides NPR transfers on both transmit and receive
- The DV/16 is system software compatible with DEC's DV11.

GENERAL DESCRIPTION

ABLE's DV/16 is a communications multiplexer that interfaces up to 32 lines to a PDP-11. It provides high throughput DMA transfer with dataset control for communication to remote terminals. Cyclic redundancy checking (CRC) is implemented to insure data integrity.

The DV/16 contains the following:

- A single hex-width control board
- Extended quad-width data board which implements eight channels
- A hex-width modem control board for each 16 channels
- A 16-channel EIA RS232 distribution panel

OPERATING PARAMETERS

Channels	8, 16, 24, or 32 communication lines
Synchronous/Asynchronous	Switch selectable in groups of four channels
Character Length	5, 6, 7, or 8 bits
Parity	Odd, even, or no parity
Sync Characters	Two switch selected characters for each four-line group.

ADDRESS SELECTION

Address selection is via on-board pencil switches. Each 16-line group requires eight word locations. An additional two locations are required to implement modem control for each 16 lines.

VECTOR

Vector addresses are selected via pencil switches within the normal range of 0-774. Each 16-line group and each modem control are assigned separate vector addresses.

PRIORITY SELECTION

The DV/16 priority level is factory set to a BG5 level; the modem control is set to a BG4 level interrupt. These levels may be user modified.

CONFIGURATION CONSIDERATIONS

The DV/16 provides substantial savings in space, power and cost due to its unique design. The product consists of one hex-width control board and one extended quad-width data board for each eight lines. Up to four data boards can be attached to one control board for a range of 8, 16, 24, or 32 lines. One additional hex-width modem control board is added for each 16 lines that require modem control. The DV/16 can be installed into any MUD bus backplane. The data and control boards must be in the same backplane.

SPECIFICATIONS

ABLE Order Number	Unibus Slots Required	Unibus Load	Power Requirements	
			+ 5V	± 15V
10070-0	3	2	12.2 amps	0.8 amps
10071-0	4	2	15.8 amps	1.1 amps
10072-0	6	3	21.7 amps	1.8 amps
10073-0	7	3	25.3 amps	2.1 amps
10070-1	2	1	9.9 amps	0.3 amps
10071-1	3	1	13.5 amps	0.6 amps
10072-1	4	1	17.1 amps	0.8 amps
10073-1	5	1	20.7 amps	1.1 amps

Operating Modes: Full or half-duplex
Synchronous or asynchronous

Baud Rates Provides:

Synchronous via switch settings: 1200, 2400, 4800, 9600

Asynchronous via software: 50, 75, 110, 134.5, 150, 300, 600, 1200, 1800, 2000, 2400, 3600, 4800, 7200, 9600, 19,200

ABLE has created a veritable store of DEC computer enhancements. ABLE's unique products help you get more out of your PDP-11. Look at our current product listing . . . you will find solutions of genuine value.

SPECIAL MEMORY PRODUCTS

SCAT/45 (330 nsec Fastbus Memory)
CACHE/45 (2KB Fastbus Cache)
CACHE/434 (8KB Unibus Cache)
CACHE/440 (8KB Unibus Cache)
EMULoader (ODT/Boot Loader)

GENERAL PURPOSE PRODUCTS

QNIVERTER (Dual-Purpose Converter)
UNIVERTER (Converter with Map)
REBUS (DB11-A Replacement)
DUAL I/O (Dual DR11-C)
INTERLINK (DR11-B Replacement)
BUSLINK (DA11-B--Unibus/Q Bus)

COMMUNICATIONS PRODUCTS

QUADRASYNC (4-line DL11)
QUADRASYNC/E (4-line DL11-E)
QUADRACALL (4-line DN11)
DMAX/16 (DH11 Replacement)
DV/16 (DV11 Replacement)
DZ/16 (DZ11-E Replacement)

..... And you can always expect more to come from ABLE Computer.



ABLE Computer
1751 Langley Avenue
Irvine, CA 92714 (714) 979-7030 TWX: 910-595-1729

Protocols Supported: Character oriented (5-8 data bits)

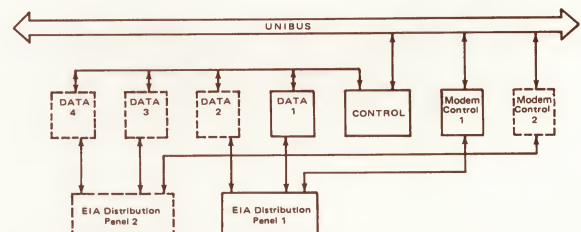
Block Check Calculations: LRC, CRC-16, CRC/CCITT

Maximum Throughput: 30,000 characters/second aggregate.

ORDERING INFORMATION

All models of the DV/16 are equipped with a control board and all required interconnecting hardware. The table below lists the models and other equipment supplied with each.

ABLE Order Number	Description	DEC Number	Data Board	DV/16 Modem Control	EIA Panel
10070-0	8-line with modem control	DV11-AA plus DV11-BA or DV11-BB or DV11-BC	1	1	1
10071-0	16-line with modem control	DV11-AA plus any two: DV11-BA or DV11-BB or DV11-BC	2	1	1
10072-0	24-line with modem control	Two DV11-AA's plus any three: DV11-BA, or DV11-BB, or DV11-BC	3	2	2
10073-0	32-line with modem control	Two DV11-AA's plus any four: DV11-BA, or DV11-BB, or DV11-BC	4	2	2
10070-1	8-line without modem control	Not Offered	1	No	1
10071-1	16-line without modem control	Not Offered	2	No	1
10072-1	24-line without modem control	Not Offered	3	No	2
10073-1	32-line without modem control	Not Offered	4	No	2



SPECIAL CONSIDERATIONS

1. The DEC "BUSY" provision is not supported by the DV/16.
2. In place of the DEC 38,400 baud rate, the DV/16 supplies the more commonly used 19,200 baud rate.